

Curriculum Vitae

Name: Tijmen Schults MSc.
First Name: Tijmen
Date of Birth: 9 September 1997
Nationality: Dutch
Main Disciplines: Hydrology, Remote Sensing, Water Management
Telephone: +31 681686033
Email: t.schults@futurewater.nl
LinkedIn: <https://www.linkedin.com/in/tijmenschults/>



Key Qualifications

Tijmen Schults (MSc.) holds an MSc. in Earth and Environment – Hydrology and Water Resources from Wageningen University and a BSc. in Land and Water Management from Van Hall Larenstein University of Applied Sciences. Driven by admiration of the natural world and the growing anthropogenic and climatic pressures on finite natural resources he is motivated to work on the environmental challenges of the present and future. His interest lies in combining digital tools and techniques such as GIS, remote sensing, and hydrological simulation models to solve integrated water resource management problems. Tijmen has acquired working experience in The Netherlands, Kenya, Mozambique, South Africa, and Vietnam where he conducted fieldwork, modeling studies, and remote sensing analyses with a variety of software packages and tools.

Educational Background

2019 – 2022 MSc. Earth and Environment – Hydrology and Water Resources / Remote Sensing, Wageningen University, Wageningen, The Netherlands

2015 – 2019 BSc. Land and Water Management – Applied Hydrology / International Land and Water Management, Van Hall Larenstein University of Applied Sciences, Velp, The Netherlands

Professional Experience

2022 – present Hydrologist, FutureWater, Wageningen, The Netherlands

Assignments and Projects

2022 – 2022 APSAN-Vale: Piloting innovations to increase the Water Productivity and Food Security for Climate Resilient smallholder agriculture in the Zambezi valley of Mozambique (client: Agência do Zambeze)

2022 – 2022 HiFarm: Data-Driven Agricultural Intensification Pilot Program for Maize, Coffee and Tea Farmers in Kenya (client: Export Trading Group (ETG) and eco.business Fund Development Facility (EBF))

2022 – 2023	CREATE: Cross-Border Climate Vulnerabilities and Remote Impacts of Food Systems of the EU, Turkey and Africa (client: Dutch Ministry of Agriculture, Nature and Food Quality)
2022 – 2022	SASPEN: Sustainable Agriculture Service Provision Enterprise Network in Egypt (client: Care Egypt Foundation (CEF))
2023 – 2023	Data Analysis for the Mekong State of the Basin Report 2023 (client: Mekong River Commission Secretariat (MRC))
2023 – 2023	Updating the 2014 Strategic Water Allocation model of the Umbeluzi (client: Blue Deal Mozambique)
2023 – Present	GLOW: Global Water Availability Forecasting Service to Support Water Security (client: Netherlands Enterprise Agency)
2023 – Present	Developing the CAREC Water Pillar: Climate Change Assessment for Georgie (client: Asian Development)
2023 – Present	WEAP Groundwater Modelling in Mozambique (client: Blue Deal Mozambique)

Research Projects

2019 – 2020	Groundwater recharge estimation in the Srepok River basin for the Drought Monitoring Framework Project (client: Institute of Water Resources Planning (IWRP) – Ministry of Agriculture and Rural Development), Hanoi
2021 – 2022	Estimation of human impacts on evapotranspiration in the semi-arid northeast Brazil (client: Ceara Meteorological Institute)

Training Experience

2022 – 2022	Trainings on using flying sensors to determine water productivity (client: Agência do Zambeze)
2022 – 2022	Trainings on Climate Smart Agriculture (CSA) and geodata tools to Egyptian Agribusiness Professionals (client: Dutch Embassy in Egypt)
2023 – 2023	Water Evaluation And Planning (WEAP) Training for the Umbeluzi Catchment (client: Blue Deal Mozambique)

Language Skills

Dutch:	Native speaker
English:	Fluent in writing and speech

Computer Skills

Programming languages:	R, Python, JavaScript (for Google Earth Engine)
GIS software:	QGIS, ArcGIS Pro, ArcMap
Hydrological simulation models:	Soil Water Assessment Tool (SWAT), Soil-Water-Atmosphere-Plant (SWAP), MODFLOW, SOBEK 2, SEBS, SEBAL, AquaCrop, WEAP
Remote sensing software:	GDAL, ERDAS IMAGINE, Google Earth Engine